



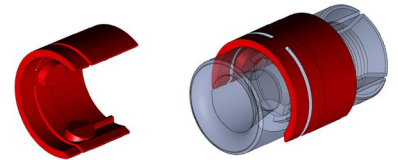
Application

The WGT is a sealing element for micro ducts according to DIN EN 50411-2-8. It fits for all listed sizes independent from pipe manufacturers. The WGT seals off water and gas in micro ducts with various cable diameters and works also like a blind plug for empty ducts⁴⁾. The slotted version suits in case of no access to end of cable or if cable was already spliced (i.e. maintenance). Beside excellent sealing performance the WGT also has a good strain and push relief for cable and micro duct. With the optional PowerClip® the strain relief improve by clamping the strength members of the cable like aramid yarn. At the cable side the WGT has an integrated shape for bend protection. The WGT comes with a slotted sealing gasket. Size 5-12 comes with a filler clip (red part) for mechanical support of slot in WGT body. The WGT is made from a corrosion-resistant aluminum alloy with anodized surface coating¹⁾. Therefore, according to DIN EN 13501-1 (combustibility of building products) the WGT can be classified as A2 (non-/limited combustible), in combination with sealing gasket and filler clip s1 (no-/little smoke) d0/d1 (no-/limited droplets). The WGT, PowerClip, filler clip and sealing gasket are halogen free according to DIN EN 60684-2. Temperature range applies from -40°C to +70°C



PowerClip®

With the optional PowerClip® the strain and push relief improve by clamping the strength members of the cable like aramid yarn (see table). The maximum attainable tensile forces depend on the quantity and quality of the strain relief elements from the cable. Order number see table Tools/Accessories



Scope of delivery

Every WGT housing comes with a slotted sealing gasket according to the selected cable size (see table sealing gasket). Select sealing gasket according to WGT size and cable diameter and specify number with order. Size 7-12 comes with a filler clip (red part).

Tools

For every size of WGT a disassembly clip is available. For most sizes also, a professional installation tool is available. The tool simplifies assembly and disassembly of the WGT especially if the cable is already in place. The WGT can be installed without using the tool but for disassembly, at least for WGT size 5mm, 7mm and thin cables, the use of the PullClip is strongly recommended.

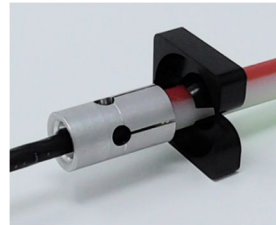


Table tools/accessories PowerClip®

PullClip	Order No.	Assembly Pliers	Order No.	PowerClip®	Order No.
WGT 5mm	01-044-01 A	WGT 5mm*	01-037-01 A*	-	-
WGT 7mm	01-045-01 A	WGT 7mm	01-038-01 A	WGT 7mm	01-011-01-A
WGT 10mm	01-046-01 A	WGT 10mm	01-039-01 A	WGT 10mm	01-008-01 A
WGT 12mm	01-047-01 A	WGT 12mm	01-040-01 A	WGT 12mm	01-009-01 A
WGT 14mm	01-048-01 A	-	-	-	-
WGT 16mm	01-049-01 A	-	-	-	-
WGT 20mm	01-060-01 A	-	-	-	-

* no longer available

Sealing gaskets

Sealing gaskets are available for common micro ducts and applicable cable diameters. Sealing gaskets are made from thermoplastic rubber (TPV) Santoprene™. ⁴⁾Slotted version of WGT works also like a blind plug with sealing gasket from shut version (on request). Select sealing gasket according to your WGT size and cable diameter from table below and specify number with order. Customer specific gaskets are available on request.



Technical Data

Feature	slotted version	WGT 7 ⁶⁾	WGT 10 ^{*6)}	WGT 12 ^{*6)}	WGT 14 ⁶⁾	WGT 16 ⁶⁾	WGT 20
Order No.	01-031-03A	01-032-03A	01-033-03A	01-036-03A	01-034-03A	01-056-03A	
∅ outside micro duct tolerance ²⁾ [mm]	7 ±0.1	10 ±0.2	12 ±0.2	14 ±0.2	16 ±0.2	20 ±0.2	
∅ cable [mm] for ∅ micro duct/wall thickness [mm]	1.0-3.1 7/1.5	2.0-5.7 10/2.0	2.0-6.6 12/2.0	6.0-8.8 14/2.0	8.0-11.0 16/2.0	8.0-14.0 20/2.5	
∅ cable [mm] for ∅ micro duct/wall thickness [mm]	1.0-4.6 7/0.75	2.0-6.6 10/1.0	2.0-9.4 12/1.1	6.0-9.7 14/1.3	-	8.0-15.0 20/2.0	
∅ outside WGT [mm]	10	14	17	19	22	26	
length WGT [mm]	19	26	32	38	42	52	
tensile strength WGT against micro cable [N] ∅ cabel [mm]	≥15 3	≥50 4.6	≥51 6.8	≥65 8.7	≥75 10.4	≥93 12.8	
tensile strength PowerClip® WGT against micro cable [N]	≥75N	≥250N	≥290N	-	-	-	
tensile strength WGT against micro duct, add. ¼ turn ³⁾ [N]	≥70 70-200	≥100 100-200	≥120 120-250	≥140	≥160	≥180	
tightness as blind plug ⁴⁾ , add. ¼ turn ³⁾ [bar]	≥5 5-11	≥5 5-11	≥5 5-11	≥5 5-8	≥5 5-8	≥5 5-8	
tightness with cable ⁵⁾ , add. ¼ turn ³⁾ [bar]	≥1 1-8	≥1 1-8	≥1 1-8	≥1 1-5	≥1 1-5	≥1 1-5	
Reaction to fire DIN EN 13501-1	A2 s1 d1	A2 s1 d1	A2 s1 d1	A2 s1 d0	A2 s1 d0	A2 s1 d0	
Halogen free DIN EN 60684-2	yes	yes	yes	yes	yes	yes	

* Approved for-funded broadband projects according to uniform material concept of the German Network Government (BMVI)
Listed values apply for properly installed product according to installation instructions.

¹⁾ The aluminum alloy with anodized surface coating is corrosion-resistant. The surface coating may change optically over time especially under conditions with high humidity and aggressive media (i.e. de-icing salt). Color change or precipitation can be removed and have no influence on the material properties, tightness or reusability.

²⁾ Tolerances shall apply for micro ducts according to DIN EN 50411-6-1 und DIN EN 60794-5-ff

³⁾ Details see installation instruction; ⁴⁾ With blind plug sealing gasket of shut version

⁵⁾ tightness of 0,5 bar shall apply after 5 times repeated installation of WGT with same sealing gasket, at 20°C and 5°C, tested and approved according to specification of Deutsche Telekom TS SpeedNet-Micro Duct-System (size WGT 7/10/12)

⁶⁾ Approved by Vodafone according to specification VFKD TS 104

Table sealing gaskets

sealing gasket	min cable max gasket no.				min cable max gasket no.				min cable max gasket no.				min cable max gasket no.				min cable max gasket no.				min cable max gasket no.							
	min	cable	max	gasket no.	min	cable	max	gasket no.	min	cable	max	gasket no.	min	cable	max	gasket no.	min	cable	max	gasket no.	min	cable	max	gasket no.	min	cable	max	gasket no.
micro duct dia.																												
5mm																												
5x1= inner 3.0	0.9	-	1.5	1	1.4	-	2	2	1.9	-	2.5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5x0.75= inner 3.5	0.9	-	1.5	1	1.4	-	2	2	1.9	-	2.5	3	2.4	-	3	4	-	-	-	-	-	-	-	-	-	-	-	-
7mm																												
7x1.50= inner 3.0	1	-	1.6	5	1.5	-	2.1	6	2	-	2.6	7	2.5	-	3.1	8	-	-	-	-	-	-	-	-	-	-	-	-
7x0.75= inner 5.5	1	-	1.6	5	1.5	-	2.1	6	2	-	2.6	7	2.5	-	3.1	8	3	-	3,6	9	3,5	-	4,1	10	-	-	-	-
10mm																												
10x2.0= inner 6.0	2	-	3	12	2.9	-	3.9	13	3.8	-	4.8	14	4.7	-	5.7	15	-	-	-	-	-	-	-	-	-	-	-	-
10x1.0= inner 8.0	2	-	3	12	2.9	-	3.9	13	3.8	-	4.8	14	4.7	-	5.7	15	5,6	-	6,6	16	-	-	-	-	-	-	-	-
12mm																												
12x2.0= inner 8.0	2	-	3	12	2.9	-	3.9	13	3.8	-	4.8	14	4.7	-	5.7	15	5,6	-	6,6	16	-	-	-	-	-	-	-	-
12x1.1= inner 9.8	2	-	3	17	2.9	-	3.9	18	3.8	-	4.8	19	4.7	-	5.7	20	5,6	-	6,6	21	6,5	-	7,5	22	-	-	-	-
14mm																												
14x2.0= inner 10.0	6	-	7	24	6.9	-	7.9	25	7.8	-	8.8	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14x1.3= inner 11.4	6	-	7	24	6.9	-	7.9	25	7.8	-	8.8	26	8.7	-	9.7	27	-	-	-	-	-	-	-	-	-	-	-	-
16mm																												
16x2.0= inner 12.0	8	-	9	28	8.9	-	9.9	29	9.8	-	11	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20mm																												
20x2.5= inner 15.0	8	-	9	31	8.9	-	9.9	32	9.8	-	11	33	11	-	12	34	4,5	-	5,5	39	7,5	-	8,5	40	-	-	-	-
20x2.0= inner 16.0	8	-	9	31	8.9	-	9.9	32	9.8	-	11	33	11	-	12	34	4,5	-	5,5	39	7,5	-	8,5	40	-	-	-	-

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